

Claims

1. Piston (1) for an internal combustion engine,
 - having a piston head (2),
 - having two pin bosses (3, 4) formed onto the piston head (2),
 - whereby, viewed in the direction of the longitudinal axis (12) of the pin bores (5, 6), at least one lubrication groove (8, 9) is machined into the center regions of the inside surfaces, which runs over the nadir region and the equator region of the pin bores (5, 6), and is at least semi-circular in shape,
characterized in that
 - the lubrication groove (8, 9) has a center region (10, 10') whose groove root (11) has a depth of less than 100 μm as compared with the inside surface of the pin bore (5, 6), in each instance,
 - that towards the inside of the piston, the center region (10, 10') of the lubrication groove (8, 9) is followed by a groove region (13, 13'), the groove root (14) of which is inclined at a slant towards the inside of the piston and in the direction of the longitudinal axis (12), and encloses an

acute angle with the longitudinal direction of the pin bore (5, 6), and

- that towards the outside of the piston, the center region (10, 10') of the lubrication groove (8, 9) is followed by a groove region (15, 15'), the groove root (16) of which is inclined at a slant towards the outside of the piston and also in the direction of the longitudinal axis (12), and encloses an acute angle with the longitudinal direction of the pin bore (5, 6).

2. Piston according to claim 1, **characterized in that** the inside surface of the groove root (11) of the center region (10, 10') of the lubrication groove (8, 9), in each instance, lies parallel to the longitudinal axis (12) of the pin bore (5, 6).
3. Piston according to claim 1 or 2, **characterized in that** the depth of the groove root (11) of the center region (10, 10') of the lubrication groove (8, 9), in each instance, is 40 to 60 μm relative to the inside surface of the pin bore (5, 6), in each instance.
4. Piston according to one of the preceding claims, **characterized in that** the acute angle between the groove root

(14) of the groove region (13, 13'), or between the groove root (16) of the groove region (15, 15'), and the longitudinal direction of the pin bore (5, 6) is less than 10° .

5. Piston according to one of the preceding claims, **characterized in that** the acute angle between the groove root (14) of the groove region (13, 13'), or between the groove root (16) of the groove region (15, 15'), and the longitudinal direction of the pin bore (5, 6) is less than 3° .
6. Piston according to one of the preceding claims, **characterized in that** more than one lubrication groove (8, 9) is machined into each of the pin bores (5, 6).